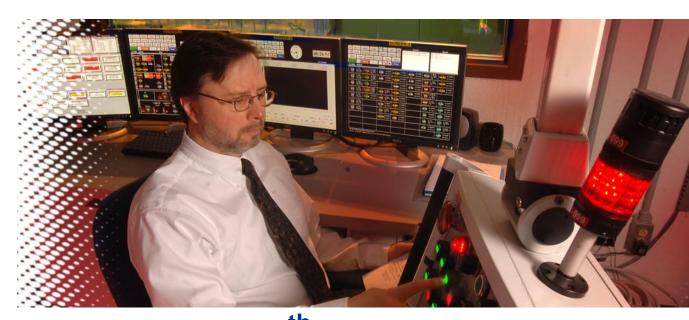


NATIONAL ENERGY TECHNOLOGY LABORATORY



Welcome to 12th Annual SECA Workshop

Heather Quedenfeld Division Director, Power Systems



Power Systems Division Funding Profile

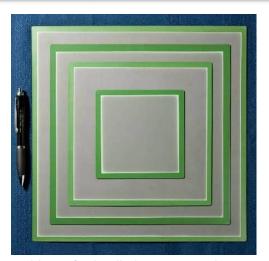
Total Number of Active Projects	79	
Total Award Value	\$595,543,216	
Total Government Share	\$430,030,758	
Total Performer Share	\$165,512,458	
	Data as of 7/21/2011	

Technology Areas

Technology Area	Active Projects
Fuel Cells	33
Advanced Turbines	40
Industrial Carbon Capture and Sequestration – Innovative Concepts for Beneficial Reuse of CO ₂	RECOVERY ACT 3
Small Business Initiative Research	RECOVERY ACT 3



Delphi fuel cell module on truck



Versa fuel cell size progression

Advanced Turbine Program 45 Current Active Projects

(excluding NETL and Site Support)

Hydrogen Turbines

GE Energy-ARRA, SC/NY Siemens Energy-ARRA, FL

Oxy-Fuel Turbines

Clean Energy Systems-ARRA, CA

Advanced Research

Aero Heat Transfer

Ames Laboratory, IA NETL, OR/PA/WV ORNL, TN Florida Turbine Tech.. FL

Combustion

Georgia Tech, GA LBNL, CA NASA Glenn, OH NETL, OR/PA/WV Parker Hannifin-CDP, OH Precision Combustion, CT

Materials

NETL, OR/PA/WV NIST, CO (SNYA) ORNL, TN

UTSR Program

Aero Heat Transfer

Ohio State, OH Ohio State, OH (SNYA) Texas A&M, TX U. Texas Austin, TX U. North Dakota, ND

Combustion

Georgia Tech, GA Purdue U., IN (SNYA) Penn. State U., PA U. Calif. Irvine, CA (SNYA) Penn. State U., PA U. Michigan, MI (SNYA) U. Michigan, MI (SNYA) U. Calif. Irvine, CA Texas A&M,TX U. Texas Austin, TX (SNYA)

Materials

Tenn. Tech, TN (SNYA) Louisiana State, LA U. Conn., CN (SNYA) Ohio State, OH Stony Brook, NY U. N. Dakota, ND (SNYA) U. Texas El Paso, TX U. Pittsburgh, PA (SNYA) U. Calif. Irvine, CA

SBIRs

Innovative Cooling Concepts

Florida Turbine Tech.. FL Mikro Systems, VA

Combustion

Precision Combustion, CT

Manufacturing

Mikro Systems-ARRA, VA Physical Sciences-ARRA, MA Barber-Nichols, CO (SNYA)

Thermal Barrier Coatings

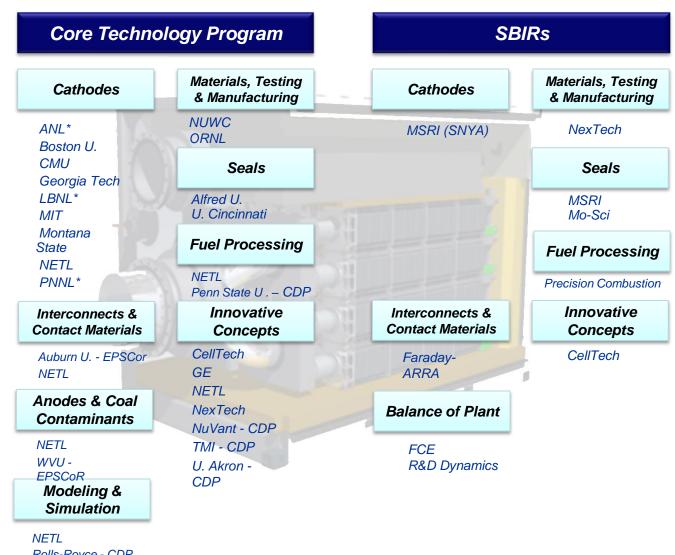
Faraday, OH UES. OH

Fuel Cells Program (SECA)

34 Current Active Projects (excluding NETL and Site Support)



FuelCell Energy & Versa Power Systems UTC Power & Delphi Rolls-Royce



Rolls-Royce - CDP

SECA Workshop Agenda Overview

- Three full days of Technical Presentations
 - Questions and Dialogue encouraged
- Keynote Speakers
 - AEP, NETL Program, IGFC Plants, and Critical Materials
- Poster Session with Reception
- Cathode Panel



Special Thanks to the Project Managers

- Robin Ames
- Rin Burke
- Maria Reidpath
- Travis Shultz
- Joe Stoffa
- Briggs White

